Inventor: OGAWA
Docket No.: 10873.255USD1
Title. LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME Attorney Name: Douglas P. Mueller
Phone No.: 612.371.5237
Sheet 1 of 28

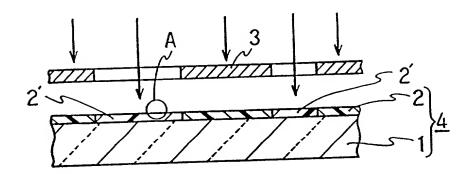


FIG. 1

Inventor OGAWA
Docket No.: 10873 255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME
Attomey Name. Douglas P. Mueller
Phone No: 612 371.5237
Sheet 2 of 28

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FIG. 2

Inventor: OGAWA
Docket No.: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND

METHOD FOR PRODUCING THE SAME

Attorney Name: Douglas P. Mueller Phone No.: 612.371.5237 Sheet 3 of 28

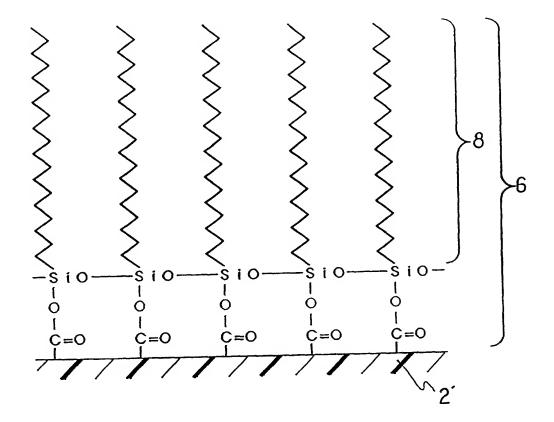
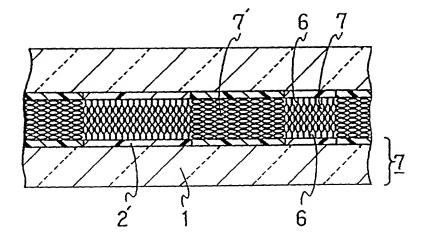


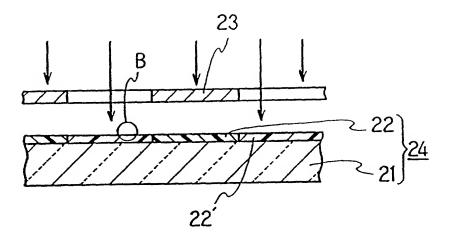
FIG. 3

Inventor: OGAWA
Docket No.: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME
Attorney Name: Douglas P Mueller
Phone No: 612.371.5237
Sheet 4 of 28



F1G. 4

Inventor: OGAWA
Docket No.: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME
Attorney Name: Douglas P Mueller
Phone No.: 612.371.5237
Sheet 5 of 28



F1G. 5

Inventor: OGAWA
Docket No. 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME Attorney Name: Douglas P. Mueller
Phone No. 612.371 5237
Sheet 6 of 28

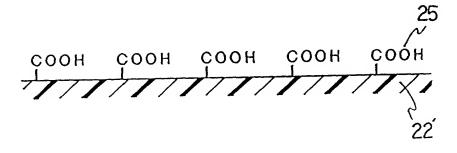
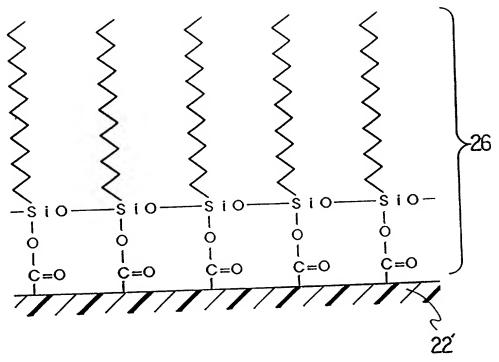


FIG. 6

Inventor: OGAWA
Docket No.. 10873 255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE
SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND
METHOD FOR PRODUCING THE SAME
Attorney Name: Douglas P. Mueller
Phone No.: 612.371.5237
Sheet 7 of 28



F1G. 7

Inventor: OGAWA

Docket No: 10873 255USD1

Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME
Attorney Name Douglas P Mueller
Phone No.: 612.371.5237

Sheet 8 of 28

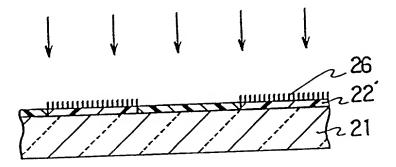


FIG. 8

Inventor: OGAWA
Docket No.: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME ATTOMIC Name: Douglas P. Mueller
Phone No.: 612.371.5237
Sheet 9 of 28

FIG. 9

Inventor: OGAWA Docket No · 10873 255USD1

Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND

METHOD FOR PRODUCING THE SAME

Attorney Name Douglas P. Mueller Phone No.: 612.371.5237 Sheet 10 of 28

FIG. 10

Inventor: OGAWA
Docket No: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME Attorney Name. Douglas P. Mueller
Phone No.: 612.371.5237
Sheet 11 of 28

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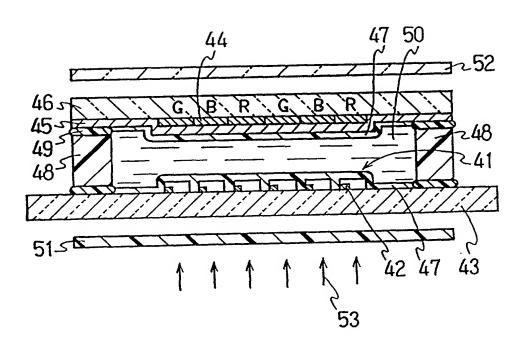


FIG. 11

Inventor. OGAWA
Docket No.: 10873.255USD1
Title. LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME ATOMIC Name: Douglas P. Mueller
Phone No. 612 371 5237
Sheet 12 of 28



FIG. 12

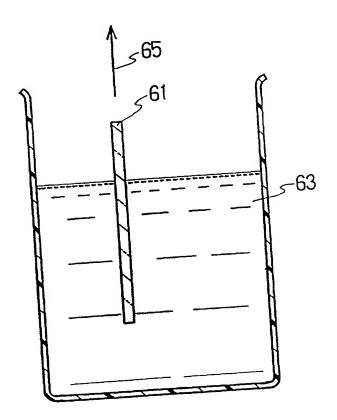
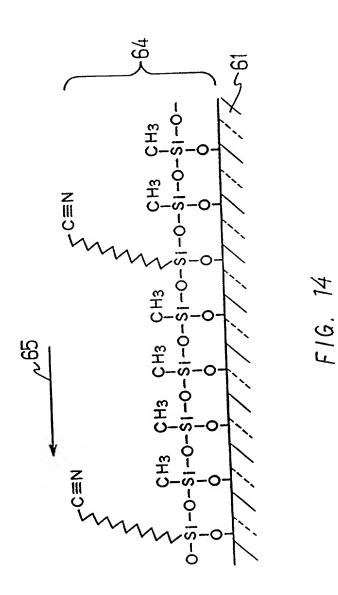


FIG. 13

Inventor: OGAWA
Docket No.. 10873.255USD1
Title. LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME
Attorney Name: Douglas P. Mueller
Phone No: 612.371.5237
Sheet 13 of 28



Inventor: OGAWA
Docket No: 10873 255USD1
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Phone No: 612 371.5237
Sheet 14 of 28

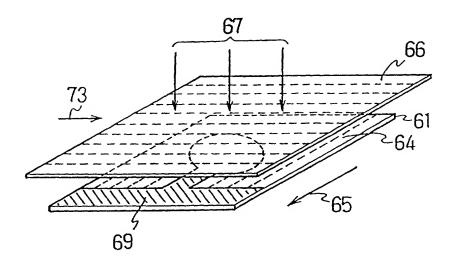


FIG. 15

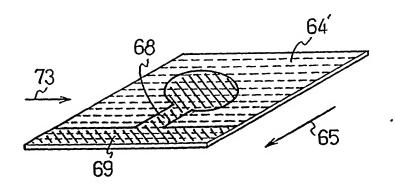
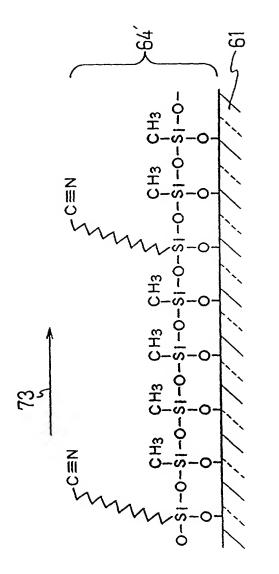


FIG. 16

Inventor: OGAWA
Docket No.: 10873 255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME
Attorney Name: Douglas P Mueller
Phone No.: 612.371.5237
Start 15 678

Sheet 15 of 28



Inventor: OGAWA

Docket No. 10873.255USD1
Title. LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND

METHOD FOR PRODUCING THE SAME Attorney Name: Douglas P. Mueller Phone No: 612.371.5237 Sheet 16 of 28

FIG. 18

FIG. 19

Inventor: OGAWA
Docket No.: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME Attorney Name: Douglas P Mueller
Phone No.: 612.371.5237
Sheet 17 of 28



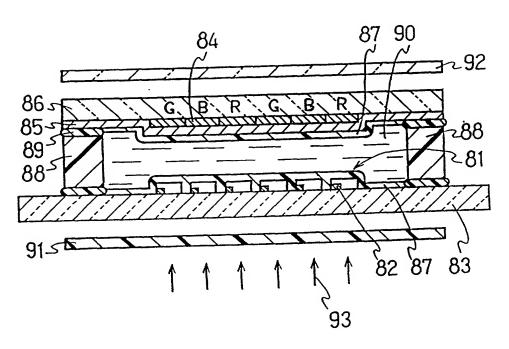


FIG. 20

Inventor: OGAWA
Docket No.: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME Attorney Name: Douglas P. Mueller
Phone No.: 612.371.5237
Sheet 18 of 28

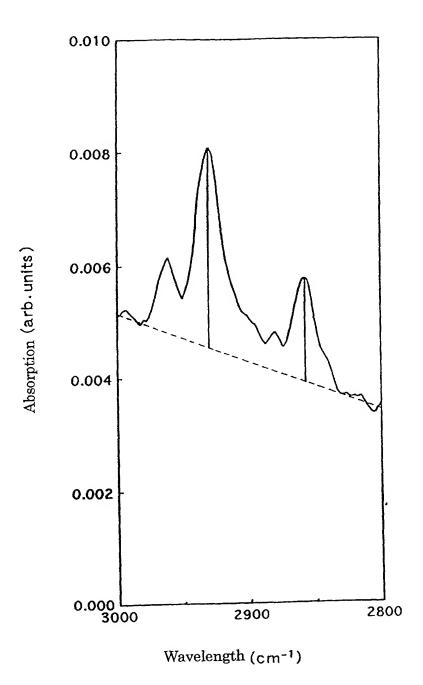


FIG. 21

Inventor: OGAWA
Docket No.: 10873.255USDI
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE
SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND
METHOD FOR PRODUCING THE SAME Attorney Name: Douglas P. Mueller Phone No.: 612.371.5237 Sheet 19 of 28

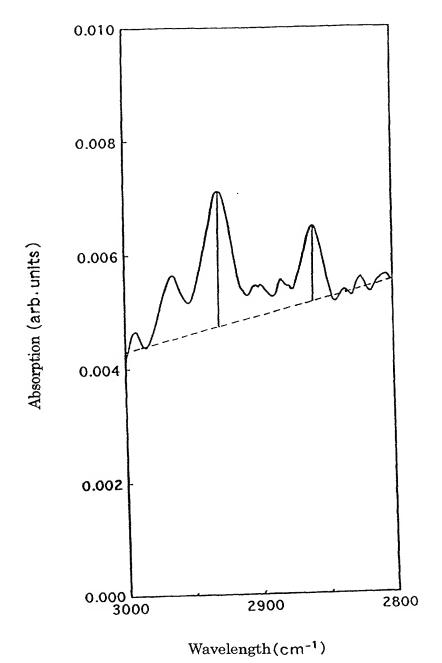


FIG. 22

Inventor: OGAWA
Docket No.: 10873 255USD1
Title. LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME
Attorney Name: Douglas P. Mueller
Phone No: 612 371 5237
Sheet 20 of 28

FIG. 23

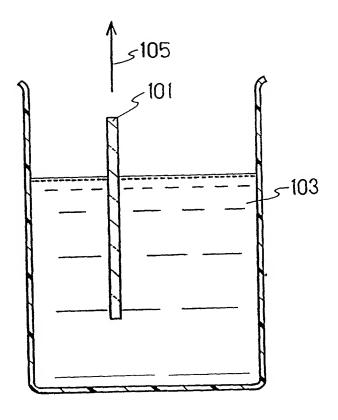
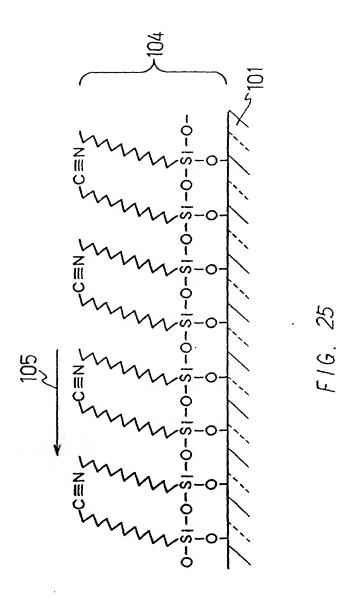


FIG. 24

Inventor: OGAWA
Docket No.: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME
Attorney Name. Douglas P. Mueller
Phone No.: 612.371.5237
Sheet 21 of 28



Inventor: OGAWA
Docket No.: 10873.255USD1
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SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND
METHOD FOR PRODUCING THE SAME
Attorney Name: Douglas P. Mueller
Phone No.: 612.371.5237
Sheet 22 of 28

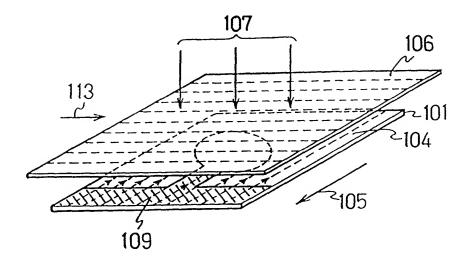


FIG. 26

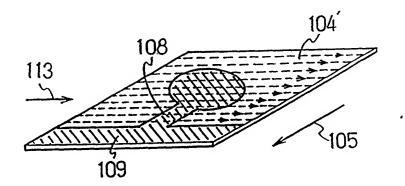
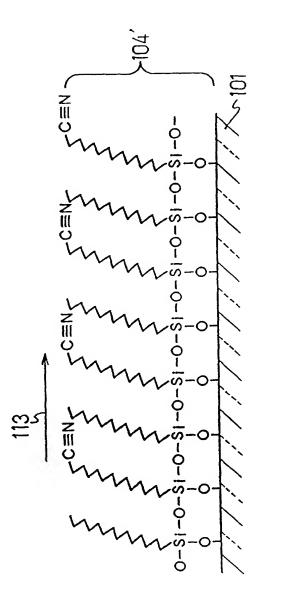


FIG. 27

Inventor: OGAWA
Docket No.: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME Attorney Name: Douglas P. Mueller
Phone No.: 612.371.5237
Sheet 23 of 28



11

Inventor: OGAWA Docket No.: 10873.255USD1

Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME

Attorney Name: Douglas P. Mueller Phone No · 612.371.5237

Sheet 24 of 28

FIG. 29

FIG. 30

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Inventor: OGAWA Docket No.: 10873.255USD1

Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND

METHOD FOR PRODUCING THE SAME

Attorney Name: Douglas P. Mueller Phone No.: 612.371.5237 Sheet 25 of 28

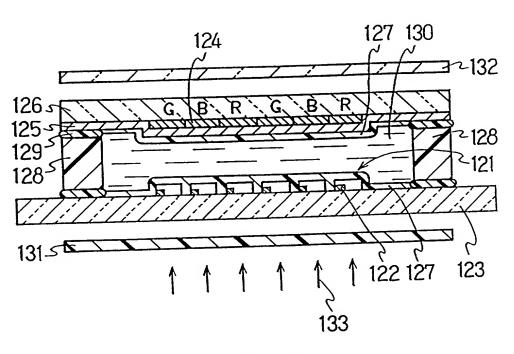
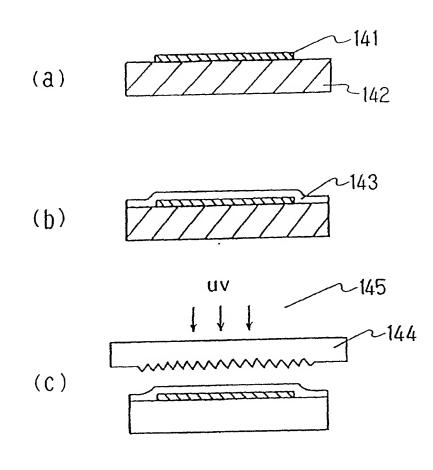


FIG. 31

Inventor: OGAWA
Docket No. 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME
Attorney Name: Douglas P. Mueller
Phone No.: 612.371 5237
Sheet 26 of 28



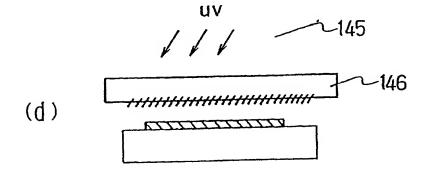
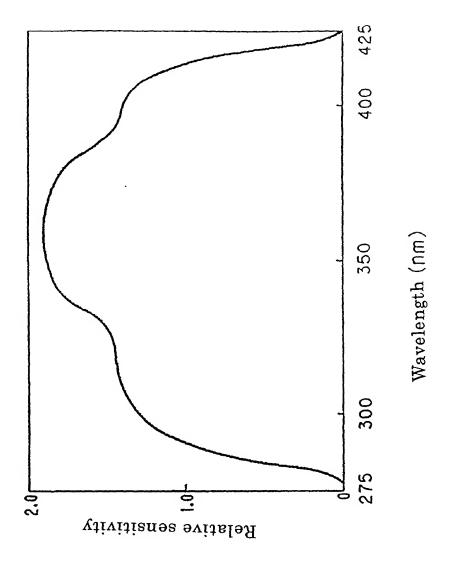


FIG. 32

Inventor: OGAWA
Docket No.: 10873.255USD1
Title: LIQUID CRYSTAL ALIGNMENT FILM AND METHOD FOR PRODUCING THE SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND METHOD FOR PRODUCING THE SAME Attorney Name: Douglas P. Mueller
Phone No.: 612.371.5237
Sheet 27 of 28





Inventor: OGAWA
Docket No: 10873 255USD1
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SAME, AND LIQUID CRYSTAL DISPLAY APPARATUS USING THE SAME AND
METHOD FOR PRODUCING THE SAME
Attoriey Name: Douglas P. Mueller
Phone No: 612.371.5237
Sheet 28 of 28



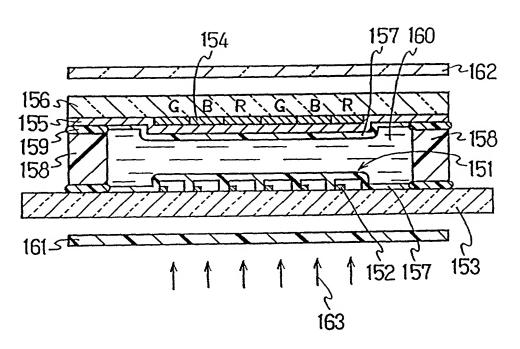


FIG. 34